

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0008	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard Sacramento Bypass	A	3.52						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
Animal Control	0.01		0.01	0.28%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>LMA Totals:</i>	0.01	0.00	0.01	0.28%	0.03	0.00	0.00	0.00
Unit No. 01 Sacramento Bypass or North Levee RB	Overall Unit Rating	Total Unit Miles						
ST0008	A	1.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
Animal Control	0.01		0.01	0.58%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.58%	0.03	0.00	0.00	0.00
Unit No. 02 Sacramento Bypass or South Levee LB	Overall Unit Rating	Total Unit Miles						
ST0008	A	1.79						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento Bypass or North Levee			Right	1.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/14/2015 - 04/14/2015		09/16/2015 - 09/16/2015	
DWR Inspector	Jai Lor		Jai Lor	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_ST0008_01_s _ 2013_3				
Action/Comments					
Inspector Comments: The Sacramento Maintenance Yard has levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	
					°	
DWR ID	DWR_ST0008_01_s _ 2013_4					
Action/Comments						
Inspector Comments: The Sacramento Maintenance Yard maintains a stockpile of flood response material.						

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_ST0008_01_s _ 2013_5				
Action/Comments					
Inspector Comments: The Sacramento Yard has a written response plan and regular flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start	0.01	Rating **	A	Issue No.	6
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.607170 °	38.599512 °
				-121.560117 °	-121.590178 °
DWR ID	DWR_ST0008_01_f_2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation on the slope has been maintained.					

Photo 1 of 1 : FA_2015_ST0008_284_6_20150921_00002.jpg



View of the vegetation on the landward side of the levee looking upstream. Photo taken at levee mile 1.73. Fall 2015.

LM Start	0.01	Rating **	A	Issue No.	7
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.607170 °	38.599512 °
				-121.560117 °	-121.590178 °
DWR ID	DWR_ST0008_01_f_2015_7				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Vegetation has been burned and dragged.					

Photo 1 of 1 : FA_2015_ST0008_284_7_20150921_00003.jpg



View of the vegetation on the waterward side of the levee looking upstream. Photo taken at levee mile 1.73. Fall 2015.

LM Start	0.94	Rating **	M	Issue No.	10
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602763 °	38.602763 °
				-121.576288 °	-121.576288 °
DWR ID	DWR_ST0008_01_f_2015_10				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_ST0008_284_10_20150921_00007.jpg



View of the rodent holes on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start	1.10	Rating **	M	Issue No.	11
LM End	1.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602180 °	38.602180 °
				-121.579130 °	-121.579130 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44783
 DS_ID:19066
 EP_NO: 13616
 FS_HLM: 1.14
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: After more investigation depressions are from water run off. erosion repair needed
 FIELD_STRUCT_DESC: 1 of 2. A agriculture drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised).
 FS Date: 04/28/2015

LM Start	1.10	Rating **	M	Issue No.	11 (cont)
LM End	1.10	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_0277.jpg



Landside view: walkway to the pump house.

Photo 2 of 3 : UCIP_FA_2015_0278.jpg



Landside view: vertical GI pipes in inlet structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start	1.10	Rating **	M	Issue No.	11 (cont)
LM End	1.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602180 °	38.602180 °
				-121.579130 °	-121.579130 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44783					
DS_ID:19066					
EP_NO: 13616					
FS_HLM: 1.14					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_0279.jpg



Landside view: pumping plant overview

LM Start	1.10	Rating **	M	Issue No.	12
LM End	1.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602128 °	38.602128 °
				-121.579150 °	-121.579150 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44784 DS_ID:19079 EP_NO: 13616 FS_HLM: 1.142 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 04/28/2015					

Photo 1 of 3 : UCIP_FA_2015_0310.jpg



Landside view: vertical GI pipe trash rack in inlet structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start	1.10	Rating **	M	Issue No.	12 (cont)	
LM End	1.10	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.602128 °	38.602128 °	
				-121.579150 °	-121.579150 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44784 DS_ID:19079 EP_NO: 13616 FS_HLM: 1.142 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 04/28/2015						

Photo 2 of 3 : UCIP_FA_2015_0311.jpg



Landside view: walkway to the pumping plant

Photo 3 of 3 : UCIP_FA_2015_0312.jpg



Landside view: overview of pumping plant

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	09/16/2015 09/16/2015	Jai Lor

LM Start	1.26	Rating **	M	Issue No.	9
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.601398 °	38.601398 °
				-121.581923 °	-121.581923 °
DWR ID	DWR_ST0008_01_f_2015_9				
Action/Comments					
Debris					

LM Start	1.26	Rating **	M	Issue No.	9 (cont)
LM End	1.26	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2015_ST0008_284_9_20150921_00006.jpg



The concrete debris is on the landward side of the levee. Fall 2015.

Photo 2 of 2 : FA_2015_ST0008_284_9_20150921_00005.jpg



Perspective view of the debris on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento Bypass or South Levee			Left	1.79
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/14/2015 - 04/14/2015		09/16/2015 - 09/16/2015	
DWR Inspector	Jai Lor		Jai Lor	
Accompanied By				

Summer & Winter Inspections

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- completion of the inspection
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/16/2015 09/16/2015	Jai Lor

LM Start	0.01	Rating **	A	Issue No.	3
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602735 °	38.597894 °
				-121.555753 °	-121.574759 °
DWR ID	DWR_ST0008_02_f _ 2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The vegetation has been mowed and burned and there is no visibility obstruction.					

Photo 1 of 1 : FA_2015_ST0008_285_3_20150921_00004.jpg



Looking at the vegetation on the waterward side of the levee looking downstream. Fall 2015.

LM Start	0.01	Rating **	A	Issue No.	2
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602735 °	38.594626 °
				-121.555753 °	-121.586689 °
DWR ID	DWR_ST0008_02_f_2015_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The slope has been burned and there is no obstruction to visibility.					

Photo 1 of 1 : FA_2015_ST0008_285_2_20150921_00003.jpg



View of the vegetation on the landward side of the levee looking downstream. Fall 2015.

LM Start	1.77	Rating **	C	Issue No.	5
LM End	1.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594777 °	38.594777 °
				-121.586525 °	-121.586525 °
DWR ID	DWR_ST0008_02_f_2013_5				
Action/Comments					
Prunings					
Inspector Comments: This is a seasonal pile but gets burned by the maintenance division each year.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	09/16/2015 09/16/2015	Jai Lor

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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